WIS 54 WIS 54 and County U intersection Wood and Portage counties

Tim Hanley – WisDOT Sean Spromberg – Becher Hoppe August 6, 2015



Today's presentation

- Review background
- Review potential solutions
- Identify WisDOT preferred alternative
- Discuss next steps



Project location



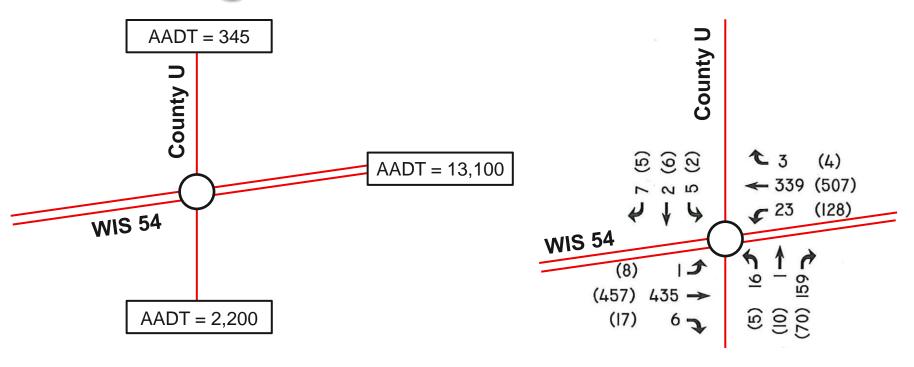


Purpose and need for the project

- Enhance safety at the intersection
- ▶ 2008 2013: 11 crashes and 18 associated injuries at the intersection
- 2006: A fatal angle crash resulted in the death of both drivers



Existing traffic conditions

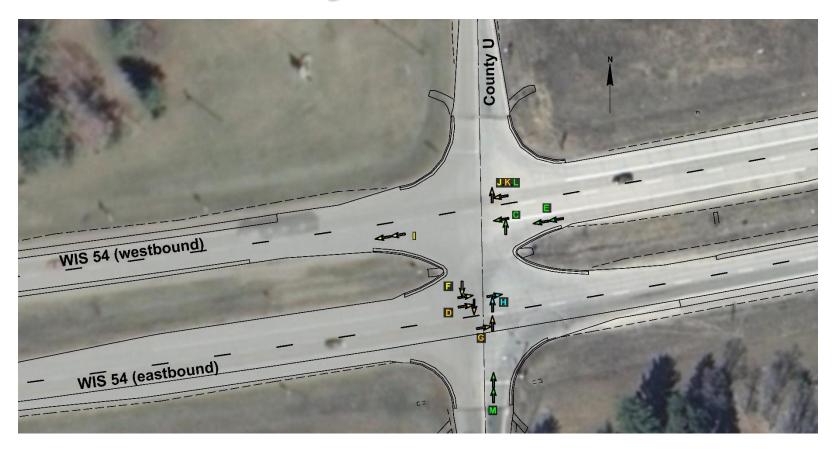


AADT: Annual Average Daily Traffic

6:30-7:30 Weekday AM Peak Hour (##) 4:00-5:00 Weekday PM Peak Hour



Crash history



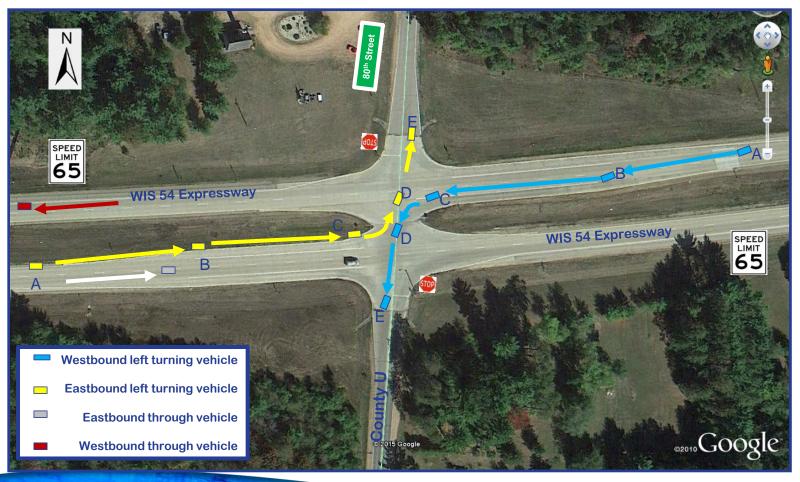


Most common public concerns

- WIS 54 turn lanes are too short
- Concerns about WIS 54 vehicle speeds
- Driver confusion at the WIS 54 and County U intersection and left turns
- Northbound County U traffic turning right is not waiting for clear right of way



Rules of the Road





Solutions and comparisons

		Alternatives							
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Factors of Evaluation	Probability of Reducing Angle Crashes (High is Most Favorable)	Low	High	Low	Low	High	High	Moderate	
	Probability of Reducing Confusion for Motorists Using the Median (High is Most Favorable)	Low	High	Moderate	Moderate	High	High	High	
	Expected to Increase Ease of Making a Turning Movement (Yes Is Most Favorable)	No	No	Yes	Yes	Yes	Yes	Yes	
	Level of Direct Construction Impacts to the Environment (Minimal is Most Favorable)	None	Minimal	Minimal	Minimal	Moderate	Large	Moderate	
	Approximate Anticipated Cost Range	\$0	\$50,000 to \$75,000	\$175,000 to \$225,000	\$300,000 to \$350,000	\$625,000 to \$1,500,000	\$750,000 to \$1,600,000	\$1,400,000 to \$1,700,000	



Preferred alternative: J-Turn

How it works - video





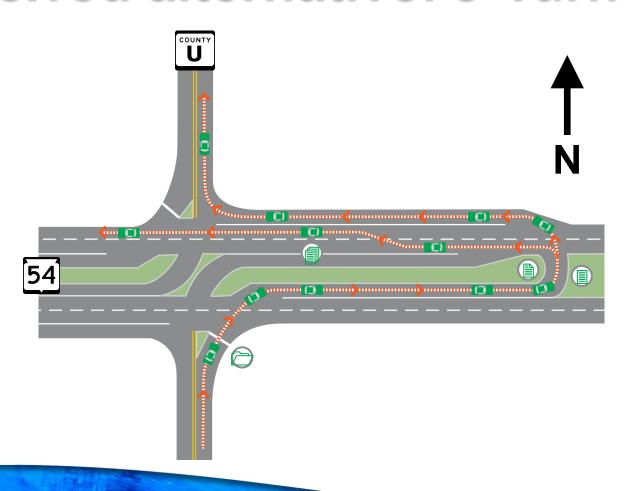
Preferred Alternative: J-Turn

Advantages

- Meets the purpose and need
- Reduces angle crashes
- No required real estate
- Minimizes impacts to the environment



Preferred alternative: J-Turn





Schedule

- Final design is currently scheduled for completion in February 2016
- Construction is currently scheduled for summer and fall 2016



Potential traffic impacts

WIS 54 will remain open to single lane traffic

County U traffic impacts will be minimized

Median crossover modifications



Contacts and resources

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Thank you for attending.



Questions?

